

Dipanjan Mazumdar

List of Publications by Year in descending order

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37
papers

1,049
citations

471061

17
h-index

414034

32
g-index

40
all docs

40
docs citations

40
times ranked

1925
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Switching Characteristics of Nearly Tetragonal BiFeO ₃ Thin Films. Nano Letters, 2010, 10, 2555-2561.	4.5	149
2	In situ detection of single micron-sized magnetic beads using magnetic tunnel junction sensors. Applied Physics Letters, 2005, 86, 253901.	1.5	109
3	Reduced Coercive Field in BiFeO ₃ Thin Films Through Domain Engineering. Advanced Materials, 2011, 23, 669-672.	11.1	82
4	Controlled Growth of Monodisperse Self-Supported Superparamagnetic Nanostructures of Spherical and Rod-Like CoFe ₂ O ₄ Nanocrystals. Journal of the American Chemical Society, 2009, 131, 12900-12901.	6.6	77
5	Computational investigation of inverse Heusler compounds for spintronics applications. Physical Review B, 2018, 98, .	1.1	69
6	Effect of film roughness in MgO-based magnetic tunnel junctions. Applied Physics Letters, 2006, 88, 182508.	1.5	68
7	Magnetostructural phase transitions and magnetocaloric effects in as-cast Mn _{1-x} Al _x CoGe compounds. Journal of Alloys and Compounds, 2017, 709, 142-146.	2.8	43
8	Spectroscopic Determination of Phonon Lifetimes in Rhenium-Doped MoS ₂ Nanoparticles. Nano Letters, 2013, 13, 2803-2808.	4.5	40
9	Viable route towards large-area 2D MoS ₂ using magnetron sputtering. 2D Materials, 2017, 4, 021002.	2.0	40
10	Colloidal Synthesis of Magnetic CuCr ₂ S ₄ Nanocrystals and Nanoclusters. Journal of the American Chemical Society, 2011, 133, 20716-20719.	6.6	36
11	Field sensing characteristics of magnetic tunnel junctions with (001) MgO tunnel barrier. Journal of Applied Physics, 2008, 103, 113911.	1.1	34
12	Recent advances in investigations of the electronic and optoelectronic properties of group III, IV, and V selenide based binary layered compounds. Journal of Materials Chemistry C, 2017, 5, 11214-11225.	2.7	34
13	Optical evidence for blue shift in topological insulator bismuth selenide in the few-layer limit. Applied Physics Letters, 2017, 110, .	1.5	27
14	Large Inverse Magnetocaloric Effects and Giant Magnetoresistance in Ni-Mn-Cr-Sn Heusler Alloys. Magnetochemistry, 2017, 3, 3.	1.0	25
15	Mn ₂ FeSi: An antiferromagnetic inverse-Heusler alloy. Journal of Alloys and Compounds, 2020, 823, 153770.	2.8	22
16	Giant field-induced adiabatic temperature changes in In-based off-stoichiometric Heusler alloys. Journal of Applied Physics, 2017, 121, .	1.1	20
17	Giant resistive switching in mixed phase BiFeO ₃ via phase population control. Nanoscale, 2018, 10, 17629-17637.	2.8	18
18	The effects of substituting Ag for In on the magnetoresistance and magnetocaloric properties of Ni-Mn-In Heusler alloys. AIP Advances, 2016, 6, .	0.6	17

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19	Effects of annealing on the magnetic properties and magnetocaloric effects of B doped Ni-Mn-In melt-spun ribbons. <i>Journal of Alloys and Compounds</i> , 2018, 731, 678-684.	2.8	17
20	Bulk transport properties of bismuth selenide thin films grown by magnetron sputtering approaching the two-dimensional limit. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	17
21	The valence band electronic structure of rhombohedral-like and tetragonal-like BiFeO ₃ thin films from hard X-ray photoelectron spectroscopy and first-principles theory. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2016, 208, 63-66.	0.8	14
22	Magnetocaloric, thermal, and magnetotransport properties of Ni ₅₀ Mn ₃₅ In _{13.9} B _{1.1} Heusler alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 444, 98-101.	1.0	14
23	Thermosensitive Ni-based magnetic particles for self-controlled hyperthermia applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 427, 200-205.	1.0	13
24	Comparing magnetostructural transitions in Ni ₅₀ Mn _{18.75} Cu _{6.25} Ga ₂₅ and Ni _{49.80} Mn _{34.66} In _{15.54} Heusler alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 401, 1145-1149.	1.0	12
25	Effect of underlying boron nitride thickness on photocurrent response in molybdenum disulfide - boron nitride heterostructures. <i>Journal of Materials Research</i> , 2016, 31, 893-899.	1.2	11
26	Effects of the partial substitution of Ni by Cr on the transport, magnetic, and magnetocaloric properties of Ni ₅₀ Mn ₃₇ In ₁₃ . <i>AIP Advances</i> , 2017, 7, .	0.6	6
27	Atomic-level insights through spectroscopic and transport measurements into the large-area synthesis of MoS ₂ thin films. <i>MRS Communications</i> , 2018, 8, 1328-1334.	0.8	5
28	A simple approach to analyze layer-dependent optical properties of few-layer transition metal dichalcogenide thin films. <i>Nanotechnology</i> , 2019, 30, 03LT02.	1.3	5
29	Magnetostructural phase transitions and large magnetic entropy changes in Ag-doped Mn _{1-x} Ag _x CoGe intermetallic compounds. <i>MRS Communications</i> , 2019, 9, 315-320.	0.8	4
30	Synthesis, structural, and magnetic properties of Heusler-type Mn ₂ -Fe _{1+Ge} (0.0 ≤ x ≤ 1.0) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 538, 168307.	1.0	4
31	Magnetic, structural and magnetocaloric properties of Ni-Si and Ni-Al thermoseeds for self-controlled hyperthermia. <i>International Journal of Hyperthermia</i> , 2017, 33, 1-6.	1.1	3
32	Magnetic field control of charge excitations in CoFe ₂ O ₄ . <i>APL Materials</i> , 2018, 6, 066110.	2.2	3
33	Influence of post-deposition annealing on the transport properties of sputtered Bi ₂ Se ₃ thin films. <i>Thin Solid Films</i> , 2021, 727, 138676.	0.8	3
34	Atomic and electronic structure of Ti substitution in Ca ₃ Co ₄ O ₉ . <i>Journal of Applied Physics</i> , 2016, 120, 205105.	1.1	2
35	Effects of Rare-Earth (R = Pr, Gd, Ho, Er) Doping on Magnetostructural Phase Transitions and Magnetocaloric Properties in Ni ₄₃ R _x Mn ₄₆ Sn ₁₁ Shape Memory Alloys. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-5.	1.2	2
36	Magnetic, Thermal And Magnetocaloric Properties Of Ni ₅₀ Mn ₃₅ In _{14.5} B _{0.5} Ribbons. <i>Advanced Materials Letters</i> , 2017, 8, 768-772.	0.3	2

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37	Topological properties of multilayer magnon insulators. Physical Review B, 2021, 104, .	1.1	0